Guidance Document for Application for Remediation Projects Requesting an Underground Injection Control (UIC) Permit

(New and Renewal Applications)

Fees must be submitted before an application can be processed:

- New Application fee: $2,000 + $500 per well
- Renewal Application fee: $1,000 + $150 per well

A temporary permit can be issued about 2-4 weeks after a partial application and fee is received. A completeness review will be conducted within 30 days. The UIC Program may request additional information to complete the application process. A final five-year permit, including the public notice period, takes approximately 3 months to process. The following are notes to assist with the attachments to the application. Please address all sections except those marked N/A. Applications for remediation are for a Class V well. If there is more than one injection well or infiltration gallery, it is for an area permit. Annual fees for individual and area permits are $1,000 plus $150 per injection well.

Attachment to Application – Notes:

A & B. A one-mile radius circle around the proposed injection well(s) shown on a U.S.G.S. 7.5' quad or comparable map will be adequate. Don't spend an inordinate amount of time researching abandoned and/or dry wells; surface bodies of water, springs, public or individual water supply wells, and remediation wells on adjacent properties are most important.

C. N/A

D & E. These items are best covered in a narrative report on hydrology/hydrogeology. Include hydraulic conductivity of the injection zone, ground water gradient and flow direction (indicate on the map under A&B above), and other pertinent information requested in D and E. This section should include a map delineating the ground water contamination and well logs representative of the site soil stratigraphy.

F. Operating data should include a description and schematic of the system in addition to items 1 thru 4 under F. If any chemical, physical or biological additives are proposed for injection, a detailed proposal is required, including, but not limited to, a full description of the additive(s) (with M.S.D.S. is available), the method of injection, the concentration of additive(s) in the injectate, the injection frequency, the purpose of the additive(s) and the anticipated results.

A water analysis of the receiving ground water in the area of the injection well(s) must be submitted with the application for all remediation projects. The analysis required of this section must be for the primary and secondary drinking water constituents, including the eight major metals (see enclosed monitoring report form). Effective October 1, 1996, all applicants are required to run an **EPA method 624** analysis on groundwater from at least one monitoring well on project site. Remediation sites with known hydrocarbon contamination must include TPH and BTXE; any site known or suspected of having other contaminants must include results of analyses for those constituents. **In cases where low volumes of ground water are pumped, treated and injected into the same aquifer a short distance from the recovery well(s), the water analysis of the fluids from the recovery well will suffice, otherwise, the waters in the receiving formation must be sampled.**

G & H. N/A

I. Describe the remediation process, including holding tanks, monitoring equipment (gauges), etc. If modeling has been conducted to predict plume capture, a schematic of this should be submitted.

J. Construction procedures should include a copy of the permeability or injection tests and design calculations for the injection well.

K Schematic drawings are required for the injection well or trench.

L. In addition to the items listed under L, the possibility of off-site movement of any part of the contaminant plume due to injection should be discussed. Ground water mounding calculations, modeling results and schematics should be submitted.

M. The contingency plan should include provisions for reporting violations and a statement assuring that injection will cease in the event of a well failure or if the receiving water is degraded.

N. Discuss the proposed monitoring program in detail. Include maps showing the monitoring well locations and identifications, a discussion of monitoring devices, sampling frequencies and parameters to be measured.

O. A plugging and abandonment plan must be submitted. Wells should be plugged according to regulations of the Division of Water Resources, and infiltration galleries should be disconnected and the pipe removed if possible.

P & Q. N/A

R. Briefly describe the business at the remediation site, the cause and nature of the contamination and the steps taken to eliminate or reduce further contamination.

S. N/A

Federal and State regulations prohibit the injection of fluids that degrade the physical, chemical or biological quality of the receiving aquifer. This is a major consideration in determining whether injection will be permitted.

Please be advised that permits may also be required from the Division of Water Resources (775-687-4380) and the agency having jurisdiction for Air Quality Permits (NDEP, Washoe and Clark Counties and Carson City). For further information, contact Russ Land at (775) 687-9428.